Installation and Operation Manual

STI Wireless Driveway Monitor™

Part of the Wireless Alert Series

Models: STI-34150 - Battery Power Kit
STI-34100 - Solar Power Kit
STI-34151 - Battery Powered Sensor
STI-34101 - Solar Power Sensor

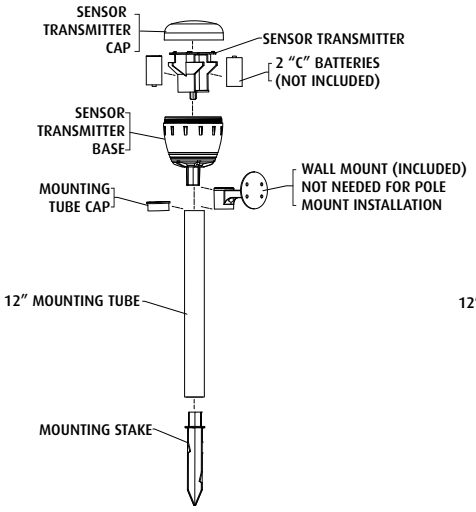
Thank you for purchasing the STI Wireless Driveway Monitor. Your satisfaction is very important to us. Please take the time to read this manual carefully to get the most from your new product.

How the products works:

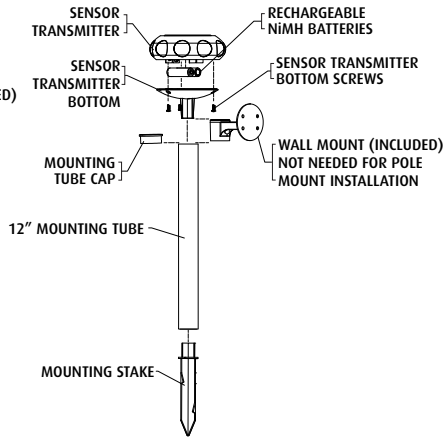
Because of its patented magnetometer sensor transmitter system, the Driveway Monitor will only be triggered by cars or trucks - not people, animals and so forth. When a vehicle passes the Motion Alert® Sensor Transmitter next to the driveway, the receiver unit inside the office or home sounds a chime and flashes the alert light. The earth has a uniform magnetic field around it. A vehicle creates a slight disturbance in the earth's field. The sensor transmitter detects this disturbance and transmits a signal to the receiver.

Before you start:

Refer to this drawing to become familiar with all the parts.

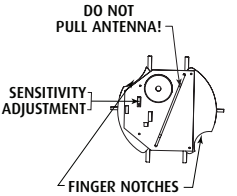


BATTERY POWERED SENSOR TRANSMITTER



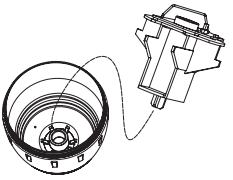
SOLAR POWERED SENSOR TRANSMITTER

Install batteries into the sensor transmitter



Battery Powered (STI-34150 & STI-34151):

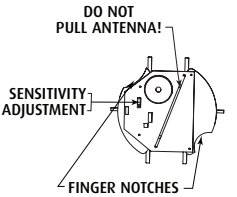
1. Remove the sensor transmitter cap by turning it counterclockwise.
2. WITHOUT PULLING ON THE BRASS ANTENNA OR ANY WIRES, grasp the outside of the battery/circuit board holder by the finger notches, twist gently and pull out. Insert two "C" alkaline batteries (not included).
3. Replace the battery holder/sensor transmitter and sensor transmitter cap.
4. To test or program sensor transmitter, place the sensor transmitter on a table or counter approximately 5-10 ft. away from the receiver. **Sensor transmitter can be activated by rotating** and will make a faint clicking noise to verify operation.
5. Sensor should be programmed to receiver before mounting outdoors. Refer to receiver instructions for programming. (Model STI-34150 is factory programmed for your convenience.)



Sensitivity Adjustment:

The factory default setting (HIGH) may be adjusted by changing the jumper position inside the sensor transmitter.

1. Unscrew cap.
2. Position the jumper to desired sensitivity (as shown).
   - LOW: Position jumper on the two bottom pegs.
   - MEDIUM: Completely remove jumper or hang on middle peg.
   - HIGH: Position jumper on the two top pegs.
3. Replace cap.



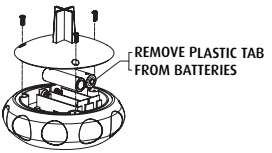
Low Sensitivity Setting:

Medium Sensitivity Setting:

High Sensitivity Setting:

Solar Powered (STI-34100 & STI-34101):

1. Remove the bottom of the sensor transmitter by removing the 3 screws on the bottom of the unit.
2. Remove the plastic tab between the batteries.
3. Replace the bottom of the unit and secure with the 3 screws. Place the sensor transmitter in direct sunlight for 48 hours.



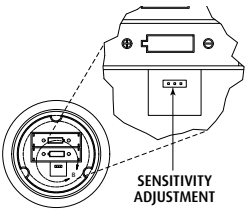
OR

4. Place batteries in a NiMH (nickel metal hydride) battery charger (before using). Once charged, return the batteries to the sensor transmitter. Replace the bottom and secure with the 3 screws.
5. To test or program sensor transmitter, place the sensor transmitter on a table or counter approximately 5-10 ft. away from the receiver. **Sensor transmitter can be activated by rotating** and will make a faint clicking noise to verify operation.
6. Sensor should be programmed to receiver before mounting outdoors. Refer to receiver instructions for programming. (Model STI-34100 is factory programmed for your convenience.)

Sensitivity Adjustment:

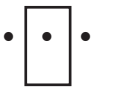
The factory default setting (HIGH) may be adjusted by changing the jumper position inside the sensor transmitter.

1. Remove the bottom of the sensor transmitter by removing the 3 screws on the bottom of the unit.
2. Position the jumper to desired sensitivity (as shown below).
   - LOW: Position jumper on the two leftmost pegs.
   - MEDIUM: Completely remove jumper or hang from middle peg.
   - HIGH: Position jumper on the two rightmost pegs.
3. Replace the bottom of the unit and secure with the 3 screws.



Low Sensitivity Setting:

Medium Sensitivity Setting:



High Sensitivity Setting:

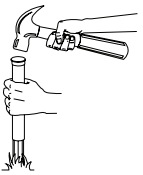
Installation Instructions:

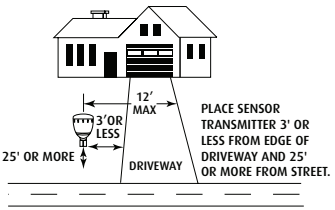
The Solar Sensor Transmitter must be placed in an area that receives partial or full sunlight. For both models, be sure the location of the sensor transmitter is at least 25' back from the main road. For a typical 12' wide driveway, it is recommended the sensor transmitter be no more than 3' away from the driveway (see drawing). Additional sensor transmitters may be required for driveways exceeding 12'. Sensor transmitter may be placed up to 1,000 feet away from receiver; however, range may vary depending upon environment and use of wireless telephones, wireless routers and other similar devices.

To obtain optimal range:

1. Place cap on tube.
2. Insert stake to opposite end of tube.
3. Place the tube (stake side down) into the ground within 3' of the driveway and more than 25' from the road.
4. Gently hammer the cap side of the tube until stake is firmly in the ground.
5. Remove cap and place sensor transmitter on tube.
6. The sensor transmitter should have a clear line-of-site to the receiver to improve performance.
7. Place the sensor transmitter so the vehicle does not pass between it and the receiver.

STI recommends the use of the stake and tube included with your Driveway Monitor. However, if you choose to mount the unit to an alternate mounting device, please be sure the device is stable. STI **does not recommend** mounting the sensor transmitter to a tree or a metal fence or gate.





TROUBLE	SOLUTION
The RECEIVER does not sound when a vehicle passes.	1. Check that the receiver is not in Temporary or Permanent Silent Mode (red LED solid). 2. Check the sensor transmitter by picking it up and rotating it. The sensor transmitter should make a "faint clicking" noise. 3. Check that the sensor transmitter and receiver are within operating distance from each other. 4. Check the sensor transmitter batteries and replace if necessary. 5. Reprogram the receiver using the steps in "Clearing the receiver memory" and "Program a device into the receiver."
The SENSOR TRANSMITTER does not activate when a car passes.	1. Check that the sensor transmitter and receiver are within operating distance from each other. 2. Change the Sensitivity in the sensor transmitter using the steps in "Sensitivity Adjustment." 3. Check that the sensor transmitter and receiver are located so a vehicle does not pass between them. 4. Change the location of the sensor transmitter by placing it closer to the edge of the driveway. 5. Bring the sensor transmitter close enough to the receiver so the receiver button is visible. Test the sensor transmitter by passing a steel shovel or large magnet around the sensor transmitter. The sensor transmitter should make a "faint clicking" noise and the red LED on the receiver should flash. 6. Check the sensor transmitter batteries and replace if necessary. On the solar powered driveway monitor, make sure the sensor transmitter is in direct sunlight and has been charged in direct sunlight for at least 48 hours after replacing batteries. Use only AA (1.2v) NiMH rechargeable batteries. 7. Reprogram the receiver using the steps in "Clearing the receiver memory" and "Program a device into the receiver."
The RECEIVER sounds when there is no vehicle passing.	1. Sensor transmitter mounted firmly and not effected by wind? 2. Sensor transmitter at least 25' away from the main road? 3. Be sure there are no other metal objects near the sensor transmitter that may move. 4. Reprogram the receiver using the steps in "Clearing the receiver memory" and "Program a device into the receiver."
Still having problems	Call STI Technical Support at 800-888-4784 ext 202.

Important notice:

This product has been tested and complies with the specifications for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used according to the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which is found by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment or devices
- Connect the equipment to an outlet other than the receiver's
- Consult a dealer or an experienced radio/TV technician for assistance

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. Changes or modifications not expressly approved by Safety Technology International, Inc. could void your authority to operate this equipment.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that permitted for successful communication.

Model 34101	Model 34151
FCC ID: TXL34101	FCC ID: TXL34151
IC: 6335A-34101	IC: 6335A-34151

Warranty information:

Safety Technology International, Inc. warrants to the **original** consumer/purchaser that this product shall be free of defects in material and workmanship under normal use and circumstances for a period of one (1) year from the original date of purchase.

Additional Wireless Alert Series Products:

STI-34099	Single Channel Slave Receiver
STI-34104	4-Channel Receiver
STI-V34104	4-Channel Voice Receiver
STI-34108	8-Channel Receiver
STI-34101	Solar Powered Driveway Monitor Sensor
STI-34151	Battery Powered Driveway Monitor Sensor
STI-34201	Wireless Mailbox Alert Sensor
STI-34301	Wireless Garage Sentry Sensor
STI-34401	Wireless Universal Alert Sensor
STI-34501	Wireless Pool Alert Sensor
STI-34601	Wireless Doorbell Button
STI-34701	Indoor Wireless PIR
STI-34751	Outdoor Wireless PIR
STI-6200WIR	Wireless Fire Extinguisher Theft Stopper
STI-6200WIR4	Wireless Fire Extinguisher Theft Stopper w/Receiver
STI-6400WIR	Wireless Exit Stopper Door Alarm
STI-6400WIR4	Wireless Exit Stopper Door Alarm with Receiver
STI-6517A	Stopper Station Shield with Sound
STI-6517B	Stopper Station Shield with Sound and Transmitter
STI-30104	Lamp Controller
STI-30105	Extended Antenna
STI-34105	Voltamax 12VDC (500mA) Power Supply
STI-34106	Keyfob
STI-34109	Repeater
STI-34188	8-Zone Relay Board

Safety Technology International, Inc.
2306 Airport Rd • Waterford, MI 48327
Phone: 248-673-9898 • Fax: 248-673-1246
info@sti-usa.com • www.sti-usa.com

Safety Technology International (Europe) Ltd.
Unit 49G Pipers Road • Park Farm Industrial Estate • Redditch
Worcestershire • B98 0HU • England • Tel: 44 (0) 1527 520 999
Fax: 44 (0) 1527 501 999 • Freephone: 0800 085 1678 (UK only)
E-mail: info@sti-europe.com • Web: www.sti-europe.com

Inst. Sht. WirelessDriveway JUNE2013